



***Restoration of Operations ACTD
(RestOps)***

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Abstract		
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Before/during/after attack actions necessary to
protect against and *immediately react to* the
consequences of a Chem or Bio attack
at a fixed site

- Protect personnel and sensitive equipment prior to attack
- Detect, identify, and warn of CB attack
- Decontaminate personnel and personal equipment
- Determine extent of contamination
- Decontaminate critical equipment/facilities necessary to restore and sustain operations
- Determine impacts on Operating Tempo (OPTEMPO) (sortie generation/force and materiel flow/medical/logistics)

RestOps Objectives



- Demonstrate tools and technologies to mitigate effects of CB attack on fixed site to support war plans
- Demonstrate Operational Concepts and Tactics/Techniques/Procedures (TTPs) for restoring ops at fixed sites
- Incorporate lessons learned into Joint and Service doctrine
- Identify potential improvements in U.S. policy for CONUS and OCONUS RestOps Contingencies

*Restore critical facility operations
to minimize impact on the warfight*

Key Participants & Roles



Osan Air Base, ROK
- Demonstration Site -

Dugway Proving Ground
- Technical Testing -

Air Force Operational Test & Eval Center
- Military Utility Assessment -

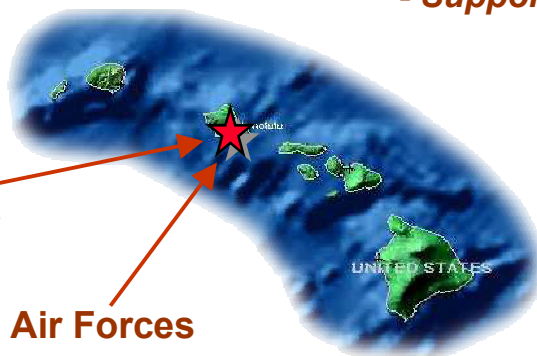
Central Command
- Supporting CINC* -

Defense Threat Reduction Agency
* Executive Agent *
- Technical Manager -

US Air Force
- Lead Service -

Pacific Command
- Sponsoring CINC* -

Pacific Air Forces
- Operational Manager -

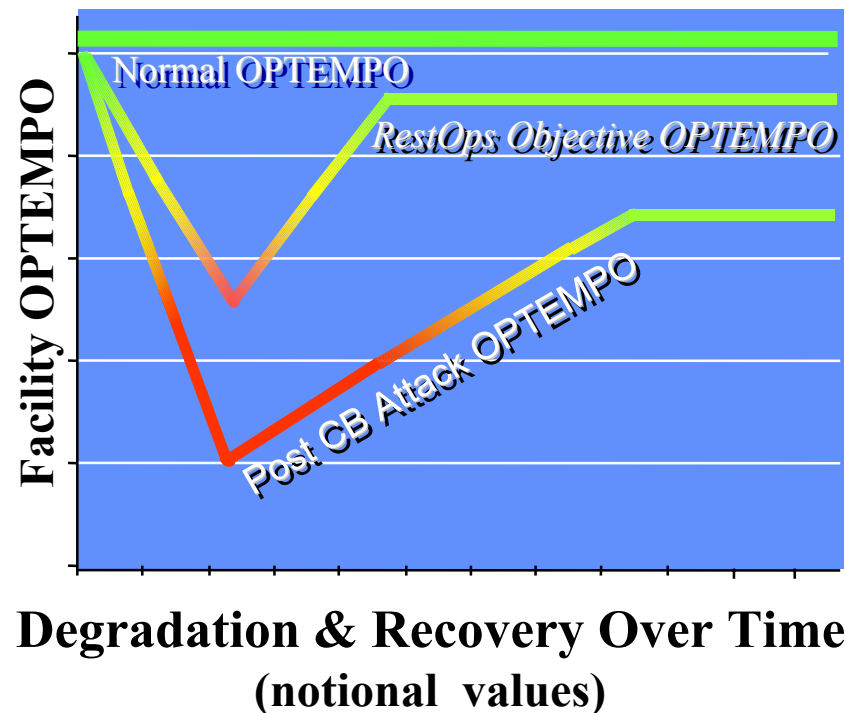


**13 Time Zones &
Thousands of participants**

* Commander-in-Chief

Potential Benefits

- Improved site response to CBW threat/attack
 - Integrated sensor/early warning network
 - Better decontamination capability
 - Improved medical response
 - Better understanding of operational impact of CB attack on warfighter and support operations
- Quicker recovery of site operating tempo
 - Sortie generation
 - Throughput of personnel/equipment



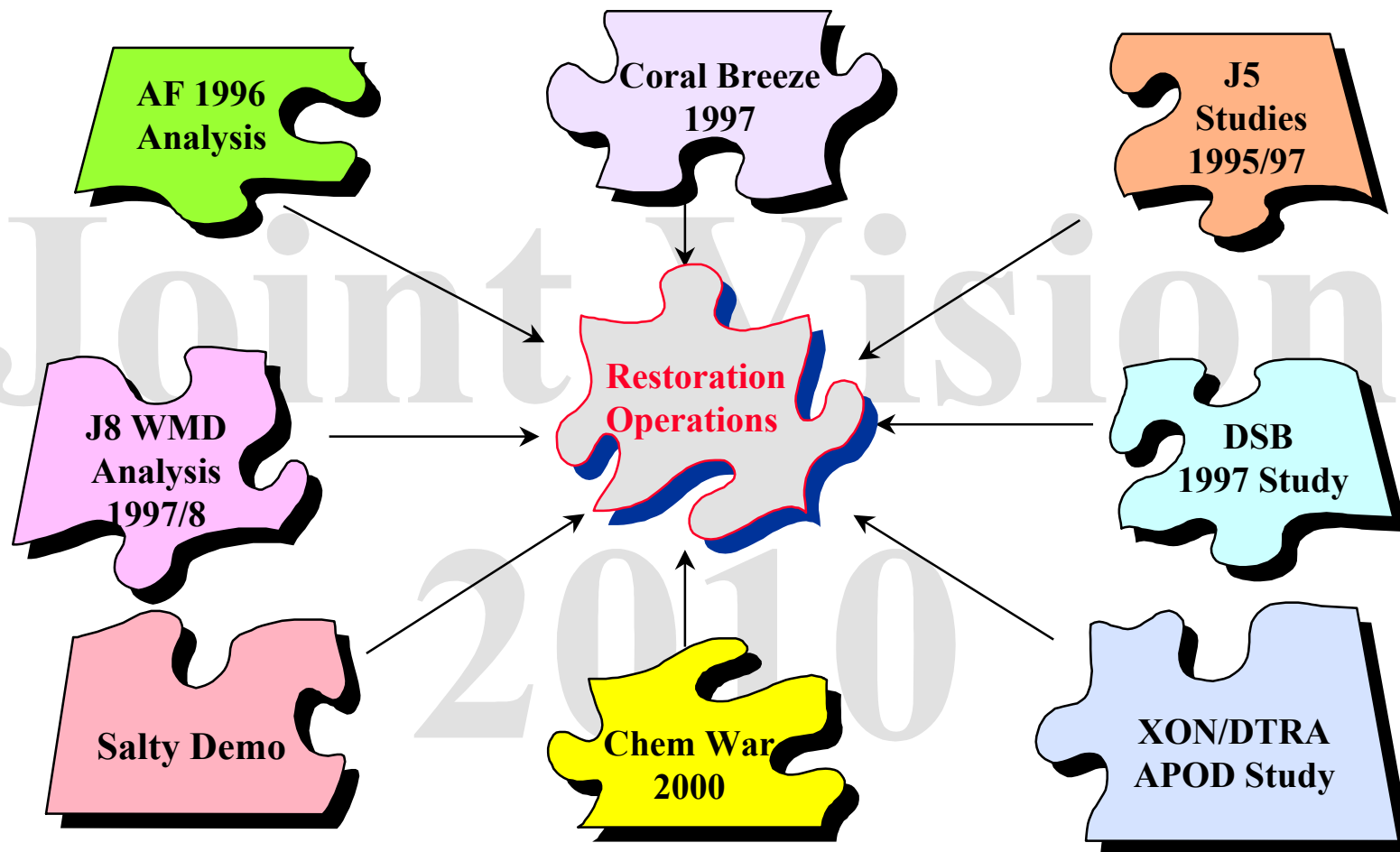
Decreased vulnerability of fixed sites to CBW attack

RestOps WILL NOT:

- Develop new equipment
- Perform Research & Development (R&D)
- Resolve all Seaport of Debarkation and Seaport of Embarkation (SPOD/E) issues
- Push Operating Procedures and equipment on services
- Determine the Origins of the Universe

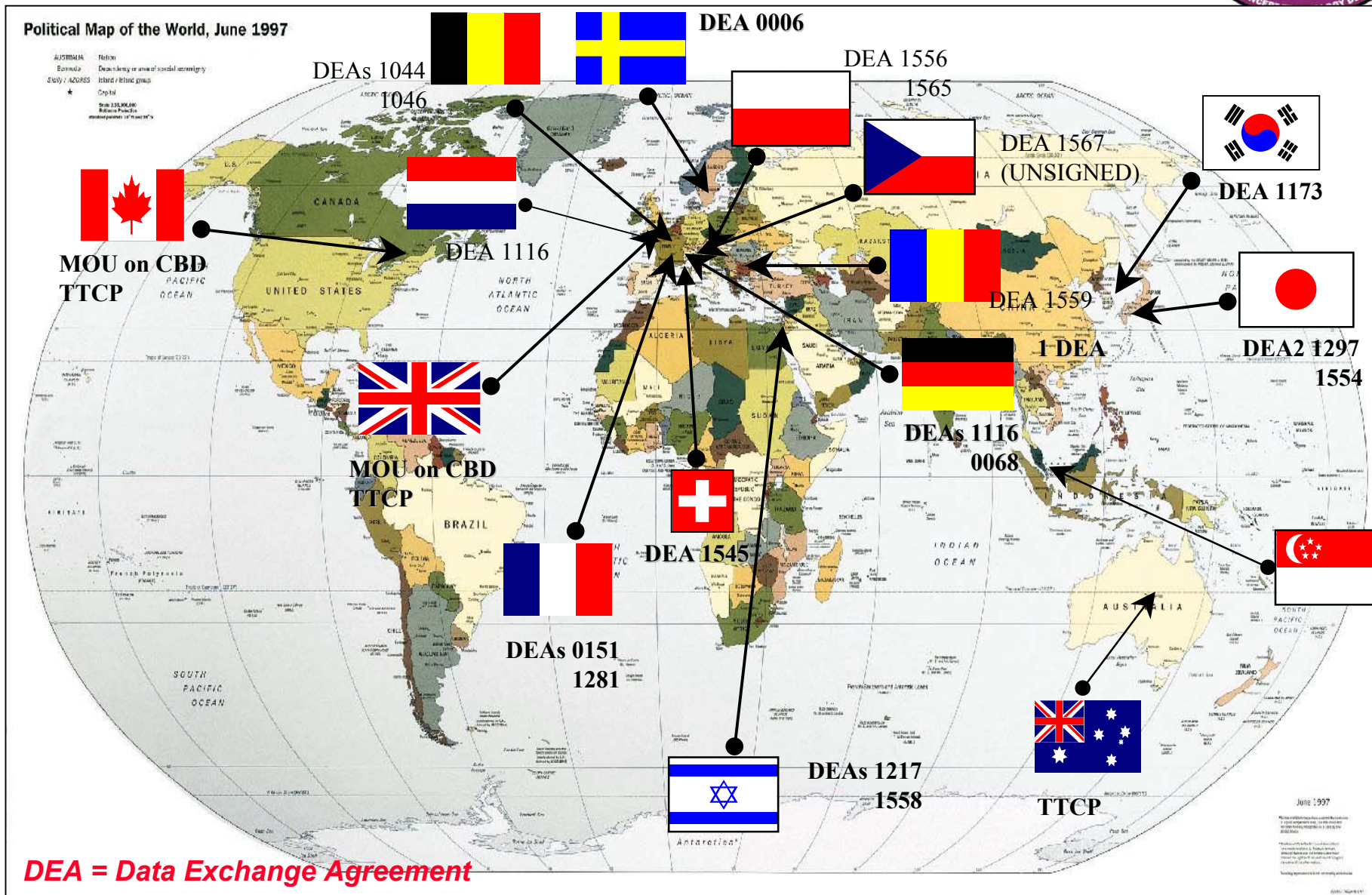


400 Reviewed; 138 Reviewed In Depth



It's time to stop admiring the problem...

RestOps International Invitations



DTRA

Base Operations & Infrastructure



Housing

Noncombatant Evacuation
Operations (NEO)



Engineer Operations

Command Center



Command and Control



Maintenance
Operations

Strategic Lift & Time Phased Force Deployment Data (TPFDD) Flow
Inter-Theater Lift



Fighter Sortie Generation



Fueling
operations

Ammunition & Warehouse
Operations



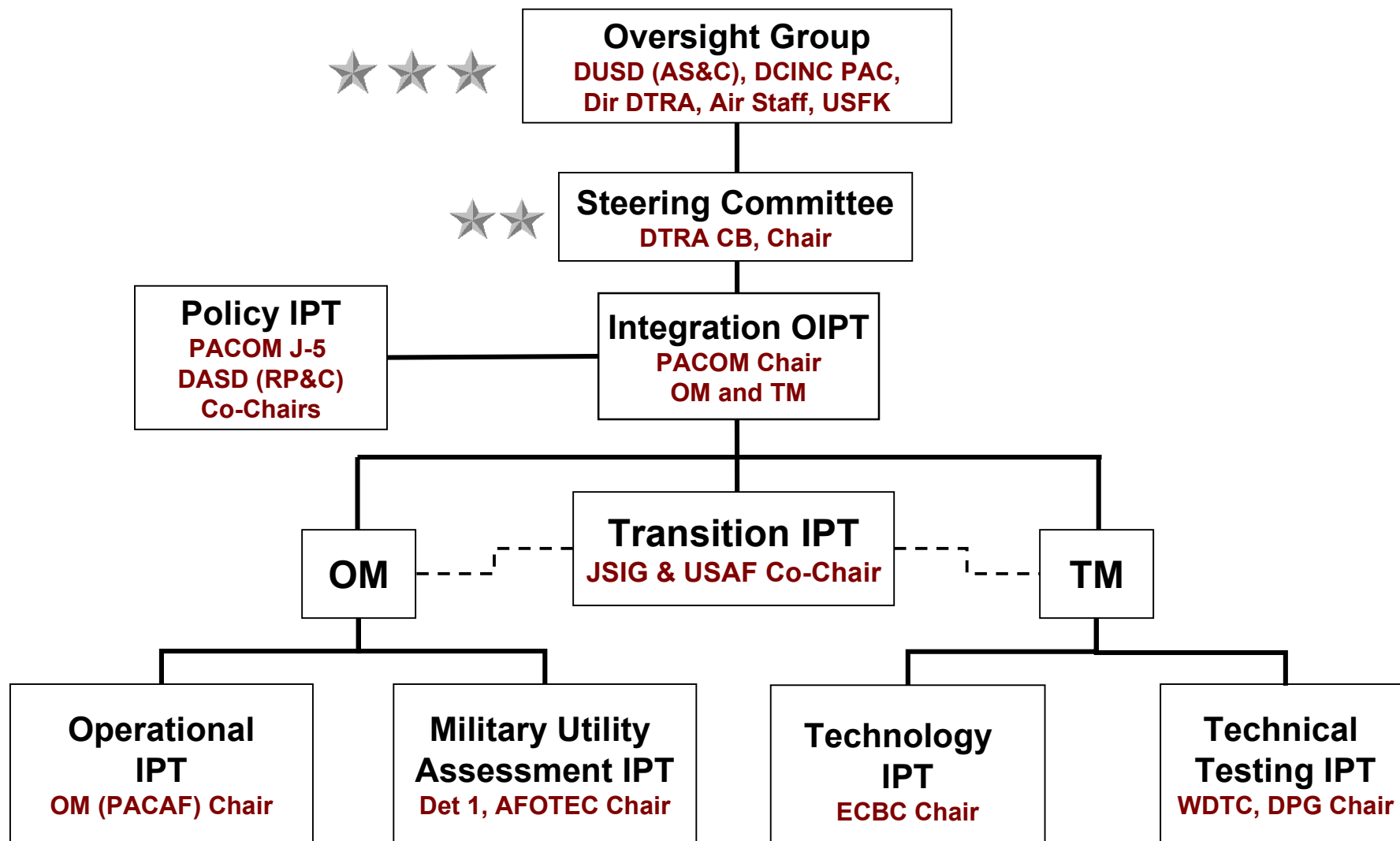
Hospital &
Medical Operations



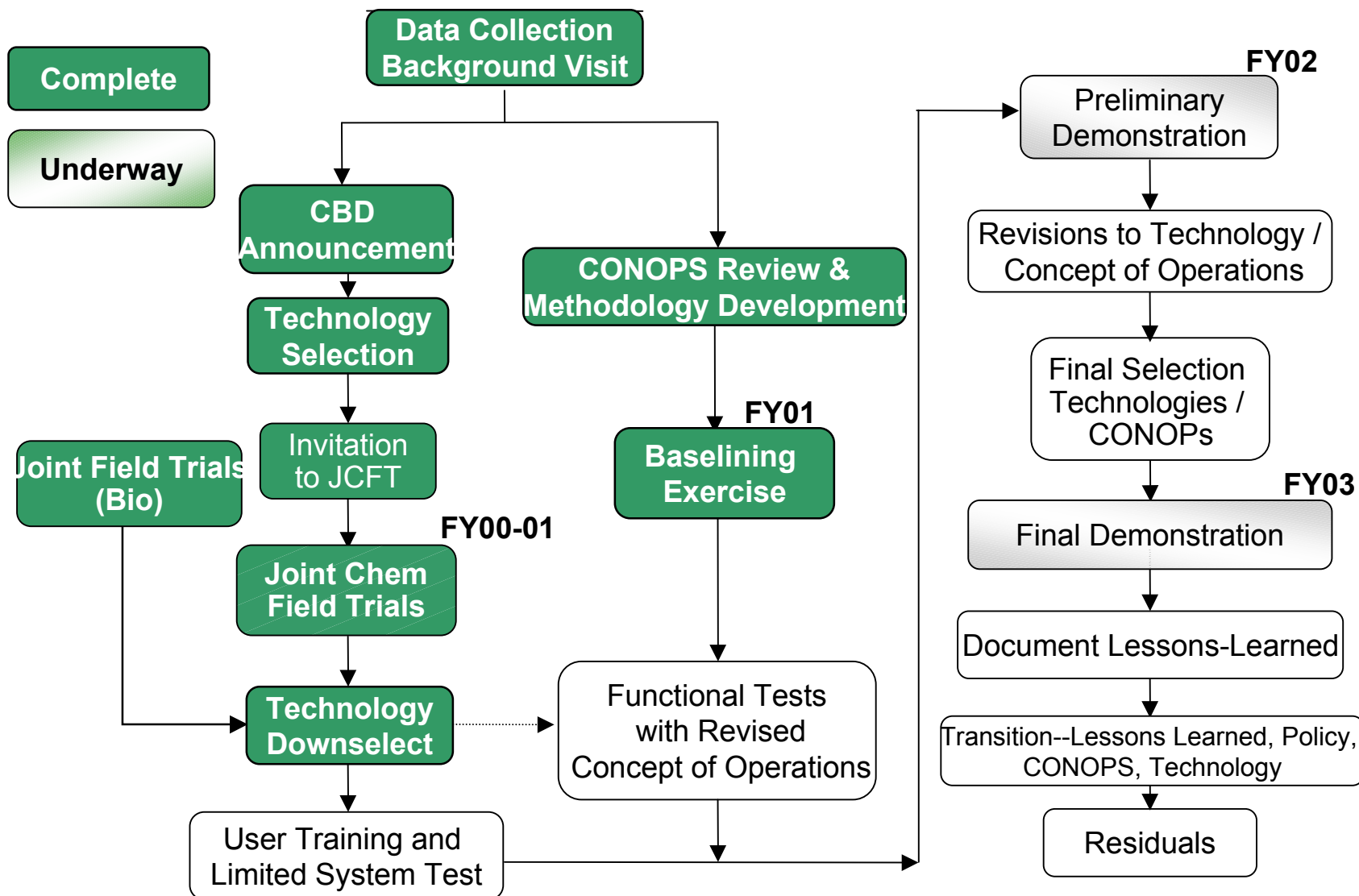
Air Defense Operations
& Patriot Batteries



Management Structure



RestOps Approach



Baseline Exercise

Mission



Characterize Osan Air Base's capability to respond to CB attacks -- both to protect against and immediately react to the consequences of a CB attack -- in order to restore operating tempo (OPTEMPO) as quickly as possible.



Baseline Exercise Scope



- Conducted 10-16 Feb 01
- 450+ data collector/exercise control team looked at seven base mission areas:
 - Sortie generation
 - Defensive capability
 - C2/WOC
 - TPFDD flow
 - Base support operations
 - Other than US forces (HNS) support
 - Medical
- Mission areas further divided into 18 Functional Areas:
 - 43 data collection “nodes” within 18 areas
 - Areas chosen for CBD impact on mission, measurement
 - Nodes show data collector posts



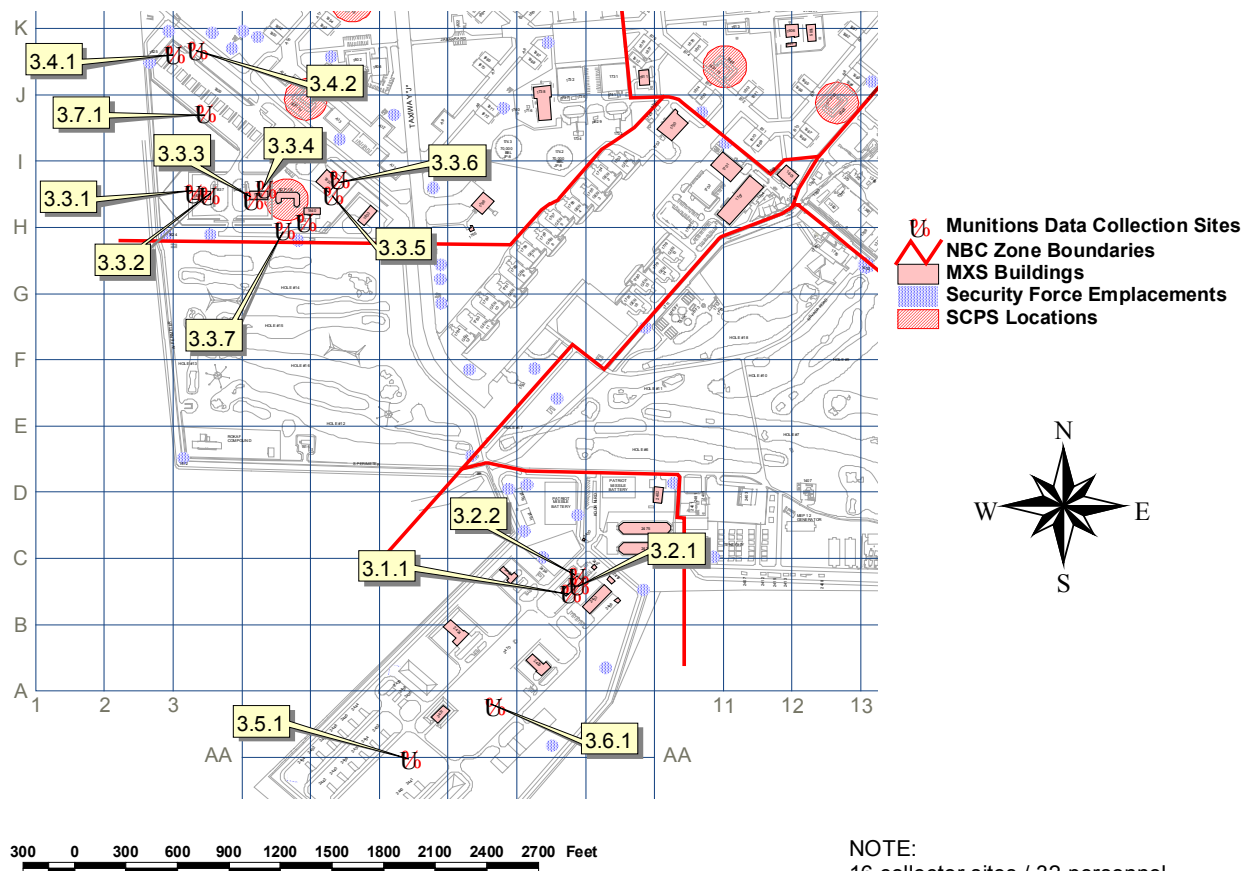
Measurement Areas

<i>Number</i>	<i>Name</i>
1	F-16 (36th FS)
2	A-10 (25th FS)
3	Munitions (storage, build, and pre-load
4	Flight Line Maintenance (51st MXS)
5	Fuels (Supply)
6	Command and Control (C2)
7	Communications (51st CS)
8	CE Readiness (51st CEX)
9	Civil Engineering (51st CES)
10	Air Mobility (631st AMSS)
11	Security Forces (51st SFS)
12	Services (51st SVS)
13	Patriot (1-43rd ADA)
14	Firefighting (CE)
15	Transportation (51st TRNS)
16	Medical (51st MDG)
17	Logistics (51st LSS)
18	Supply (51st SUPS)

Data Collector Layout Sample



Functional Area 3: Munitions Data Collection



Next Steps

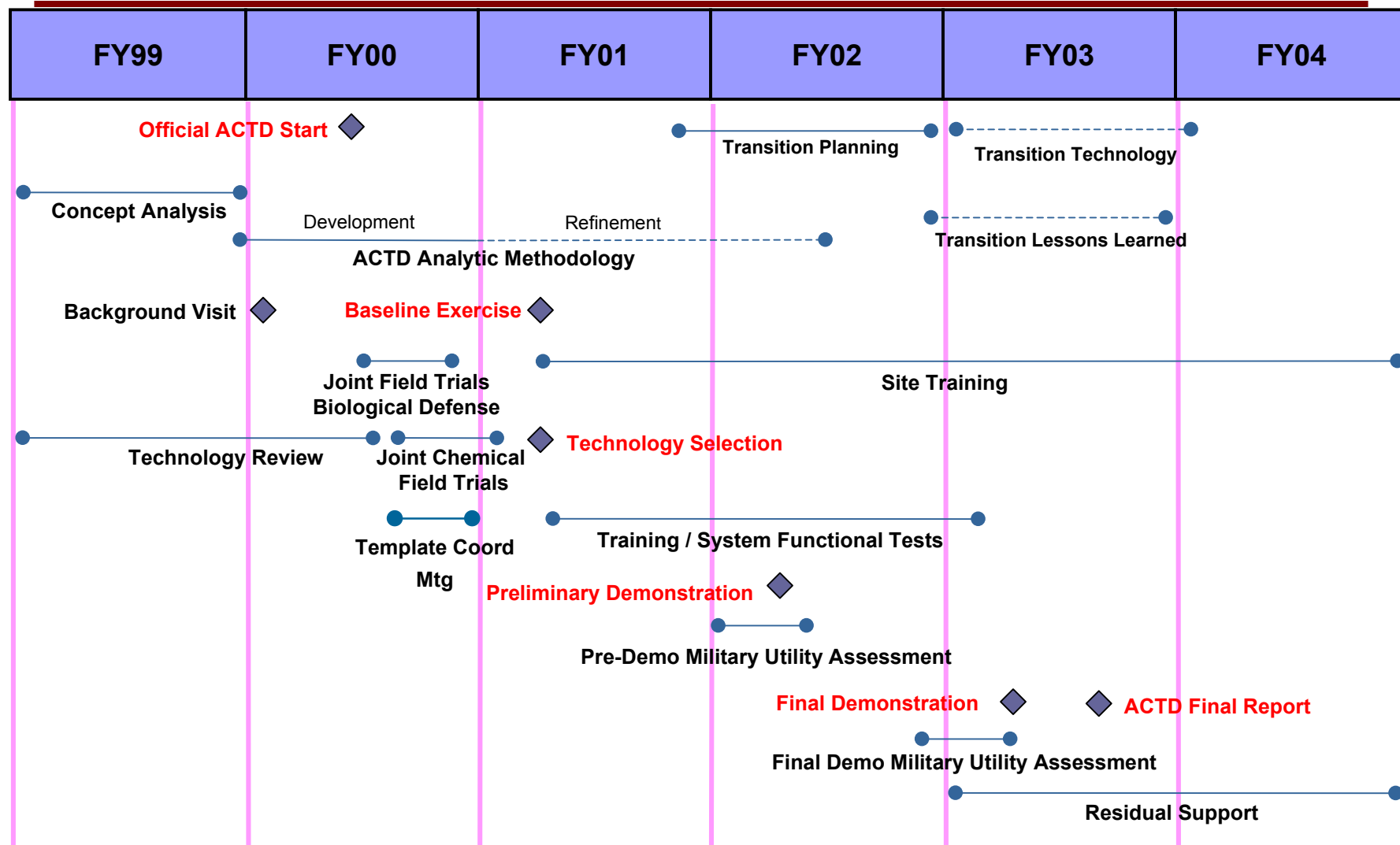


- Conduct data analysis and prepare report
 - Exercise Report due out 25 July 01
 - Incorporate lessons learned into Feb 02 Preliminary Demo
- Brief ACTD senior management on baseline analysis
- Begin preparations for Preliminary Demonstration



- Recommend Joint Doctrine changes (policy implications)
- Recommend operational doctrine changes to the Services
- Assist in developing training packages for the Services and Joint schools (equipment, base ops, C2)
- Assist in placing fixed site CB Defense CONOPS in service MOS producing and leadership schools (command, staff, and senior service schools)
- Assist services and CINC in placing fixed site CB Defense CONOPS into the major warfighting exercise process
- Residual equipment support (2 yrs) at Osan AB
- Assist accelerated acquisition of equipment selected
- Assist Services to POM for new equipment and sustainment support

RestOps Master Schedule



- **RestOps is fully funded to demonstrate Tactics, Techniques & Procedures (TTPs) and technology for CB defense at a fixed site**
- **ACTD will leverage:**
 - Recently completed, on-going & planned studies and live agent testing to refine understanding of post attack CBW contamination hazards
 - Non-DoD Research & Development programs to include Department of Energy and international community
- **CDR 7th Air Force is the customer and determines leave-behind capabilities**
- **Goal -- identify generic fixed site needs for restoration operations**
 - Osan Air Base demonstration applied to bigger picture for all fixed sites

Questions?

Contact Information:

A large, faded background image of a military aircraft carrier, likely an amphibious assault ship, with various aircraft and personnel visible on its deck.

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RestOps

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Back Ups

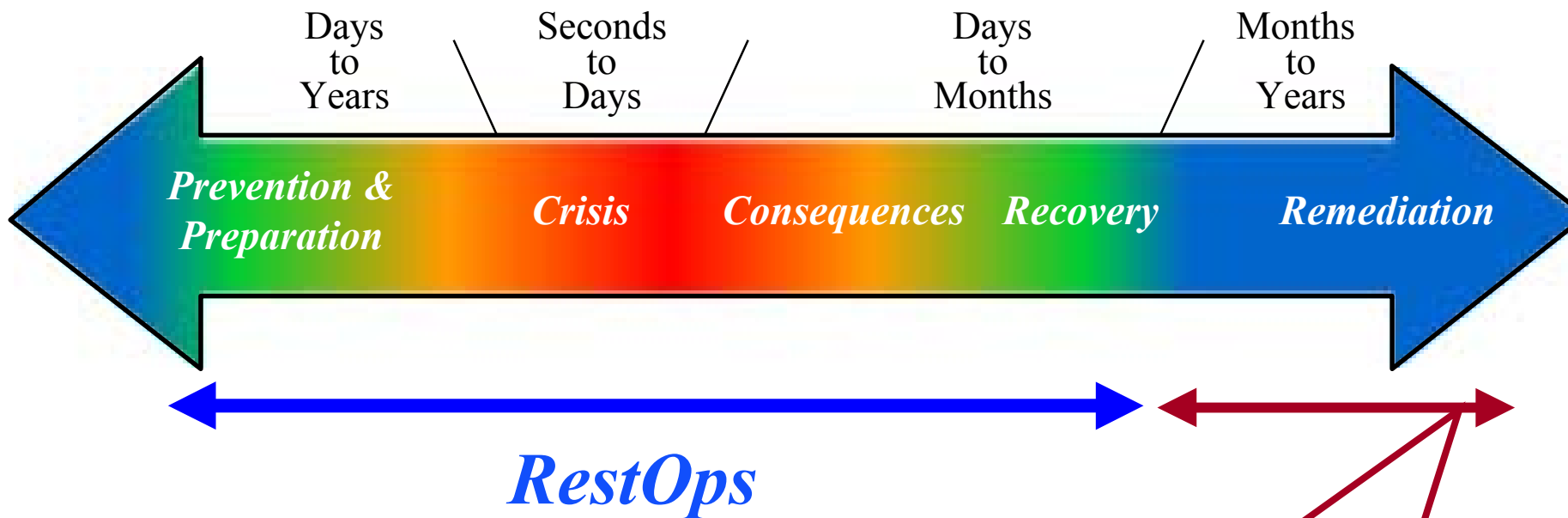
Why RestOps?

- **Warfighter Request:** Initiate an exercise (ACTD) to demonstrate processes, procedures and technology needed to quickly restore operations at a port or airfield following a CB attack.



- **Recent Studies Highlight Problem:** Establishing responsibility and providing the capability required to restore OPTEMPO at fixed sites (airports and seaports of embarkation / debarkation) after a CB attack critical to power projection strategy.

Spectrum of CB Defense



Outside of Scope :

- 100% decontamination of equipment or facilities
- 100% eradication of hazard
- 100% restoration of OPTEMPO



- Better Operational Concepts/TTPs
 - Decontamination of Strategic Lift
 - Decontamination Waste Control
 - Contaminated Casualty Handling
- Improved Technologies
 - Mobile BW Detection
 - CB Contamination Marking
 - Aircraft & Equipment Decontamination
 - Patient Decontamination
 - CB Absorbent Barrier Materials
- Planning Tools
 - CBW sensor integration / placement
 - CBW sensor vulnerability assessment
- Science & technology to support resolution of Policy issues
 - Civil Reserve Air Fleet / Merchant Marine operations in CBW environment
 - Protection of critical Host Nation Support resources
 - Handling of contaminated remains